

Primers for PCR Amplification the DHFR Deletion Polymorphism Region

Forward primer: 5'-CTA AAC TGC ATC GTC GCT GTG-3'

Reverse primer: 5'-AAA AGG GGA ATC CAG TCG G-3'

Genotypes of the DHFR 19 bp Deletion
by Non-denaturing Polyacrylamide Gel Electrophoresis

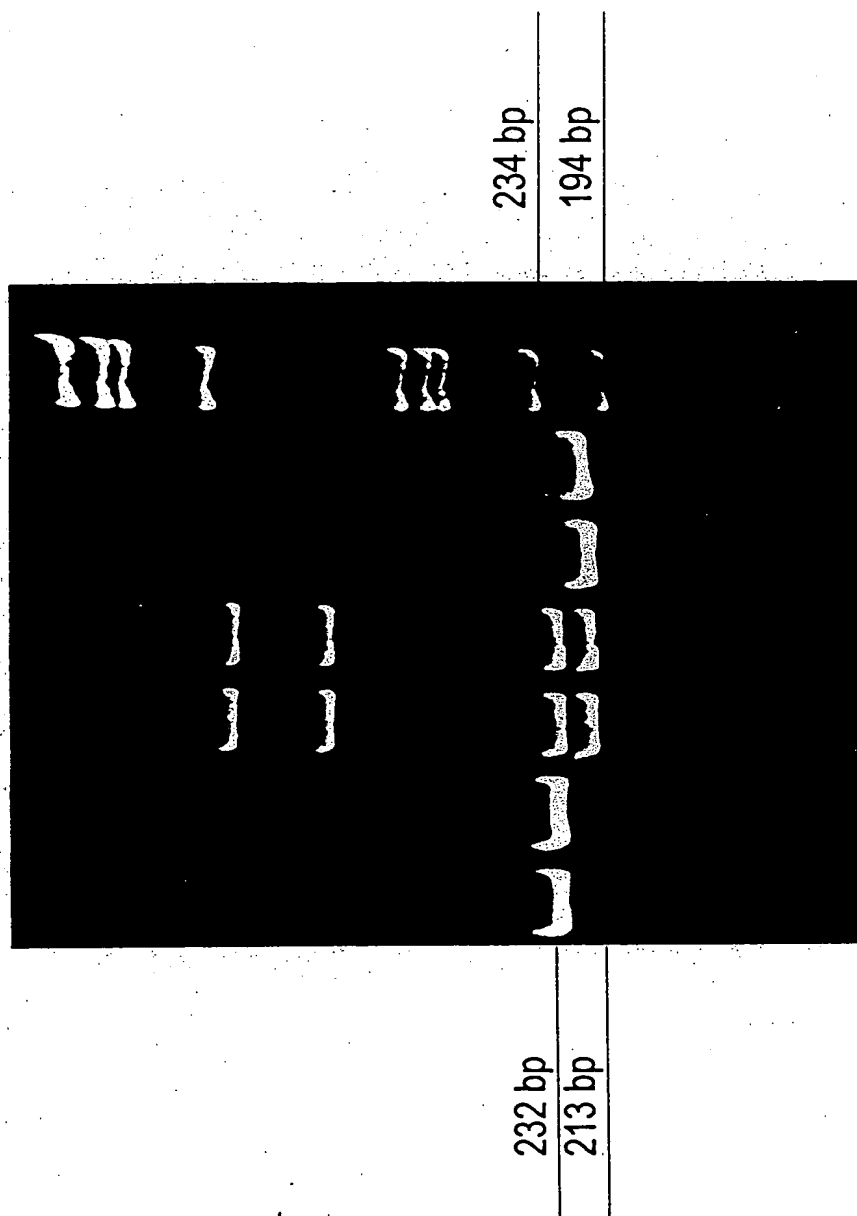


Figure 2

Sequences of PCR Amplification Products
in the Region of the DHFR Deletion Polymorphism Region

Allele 1	GCTGCCCAOAGGTGGGGTACCTGGGCGGGACGCGCCAGGCOGACTCCCGGGGAGAG
Allele 2	GCTGCCCAOAGGTGGGGT.....GGCOGACTCCCGGGGAGAG

Figure 3

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1 CTGCAGCGCC AGGGTCCACC TGGTCGGCTG CACCTGTGGA GGAGGAGGTG
 51 GATTTTCAGGC TTCCCGTAGA CTGGAAGAAT CGGCTCAAAA CCGCTTGCCT
 101 CGCAGGGGCT GAGCTGGAGG CAGCGAGGCC GCCCGACGCA GGCTTCCGGC
 151 GAGACATGGC AGGGCAAGGA TGGCAGCCCG GCGGCAGGGC CCGGCGAGGA
 201 GCGCGAACCC GCGGCCGCAG TTCCAGGCG TCTGCGGGCG CGAGCACGCC
 251 GCGACCCTGC GTGCGCCGGG GCGGGGGGGC GGGGCCTCGC CTGCACAAAT
 301 AGGGACGAGG GGGCGGGGCG GCCACAATTT CGCGCCAAAC TTGACCGCGC
 351 GTTCTGCTGT AACGAGCGGG CTCGGAGGTC CTCCCGCTGC TGTCATGGTT
 401 GGTTCGCTAA ACTGCATCGT CGCTGTGTCC CAGAACATGG GCATCGGCAA
 451 GAACGGGGAC CTGCCCTGGC CACCGCTCAG GTATCTGCCG GGCCGGGGCG
 501 ATGGGACCCA AACGGGCGCA GGCTGCCCAC GGTCGGGGTA CCTGGGCGGG
 551 ACGCGCCAGG CCGACTCCCG GCGAGAGGAT GGGGCCAGAC TTGCGGTCTG
 601 CGCTGGCAGG AAGGGTGGGC CCGACTGGAT TCCCTTTTC TGCTGCGCGG
 651 GAGGCCCAGT TGCTGATTTT TGCCCGGATT CTGCTGCCCG GTGAGGTCTT
 701 TGCCCTGCGG CGCCCTCGCC CAGGGCAAAG TCCCAGCCCT GGAGAAAACA
 751 CCTCACCCCT ACCCACAGCG CTCCGTTTGT CAGGTGCCTT AGAGCTCGAG
 801 CCAAGGGAT AATGTTTCGA GTAACGCTGT TTCTCTAACT TGTAGGAATG
 851 AATTCAGATA TTTCCAGAGA ATGACCACAA CCTCTTCAGT AGAAGGTAAT
 901 GTGGGATTAA GTAGGGTCTT GCTTGATGAA GTTTACCAGT GCAAATGTTA
 951 GTTAAATGGA AAGTTTTCCG TGTTAATCTG GGACCTTTTC TCTTATTATG
 1001 GATCTGTATG ATCTGTATGC AGTTCCCAAG GTTCATTTAC CATTATTAAA
 1051 AAATTTTTGT CTTAGAAATT TTATGTATGT CAACGCACGA GCAAATTATC
 1101 AGGCATGGGG CAGAATTGGC AACTGGGTGG AGGCTTCGGT GGAGGTTAGC
 1151 ACTCCGAAAG GAAAACAGAG TAGGCCTTTG GAACAGCTGC TGGAAGAGAT
 1201 AAGGCCTGAA CAAGGGCAGT GGAGAAGAGA GGGTAAAAAT TTTTAAAGGT
 1251 TACATGACCC TGGATTTTGG AGATC

Figure 4A

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1 CTGCAGCGCC AGGGTCCACC TGGTCGGCTG CACCTGTGGA GGAGGAGGTG
 51 GATTTTCAGGC TTCCCGTAGA CTGGAAGAAT CGGCTCAAAA CCGCTTGCCT
 101 CGCAGGGGCT GAGCTGGAGG CAGCGAGGCC GCCCGACGCA GGCTTCCGGC
 151 GAGACATGGC AGGGCAAGGA TGGCAGCCCG GCGGCAGGGC CCGGCGAGGA
 201 GCGCGAACCC GCGGCCGCAG TTCCCAGGCG TCTGCGGGCG CGAGCACGCC
 251 GCGACCCTGC GTGCGCCGGG GCGGGGGGGC GGGGCCTCGC CTGCACAAAT
 301 AGGGACGAGG GGGCGGGGCG GCCACAATTT CGCGCCAAAC TTGACCGCGC
 351 GTTCTGCTGT AACGAGCGGG CTCGGAGGTC CTCCCGCTGC TGTCATGGTT
 401 GGTTTCGCTAA ACTGCATCGT CGCTGTGTCC CAGAACATGG GCATCGGCAA
 451 GAACGGGGAC CTGCCCTGGC CACCGCTCAG GTATCTGCCG GGCCGGGGCG
 501 ATGGGACCCA AACGGGCGCA GGCTGCCCCAC GGTCGGGGT
 551 GG CCGACTCCCG GCGAGAGGAT GGGGCCAGAC TTGCGGTCTG
 601 CGCTGGCAGG AAGGGTGGGC CCGACTGGAT TCCCCTTTTC TGCTGCGCGG
 651 GAGGCCAGT TGCTGATTTT TGCCCGGATT CTGCTGCCCC GTGAGGTCTT
 701 TGCCCTGCGG CGCCCTCGCC CAGGGCAAAG TCCCAGCCCT GGAGAAAACA
 751 CCTCACCCCT ACCCACAGCG CTCGGTTTGT CAGGTGCCTT AGAGCTCGAG
 801 CCAAGGGAT AATGTTTTCGA GTAACGCTGT TTCTCTAACT TGTAGGAATG
 851 AATTCAGATA TTTCCAGAGA ATGACCACAA CCTCTTCAGT AGAAGGTAAT
 901 GTGGGATTAA GTAGGGTCTT GCTTGATGAA GTTTACCAGT GCAAATGTTA
 951 GTTAAATGGA AAGTTTTCCG TGTTAATCTG GGACCTTTTC TCTTATTATG
 1001 GATCTGTATG ATCTGTATGC AGTTCCCAAG GTTCATTTAC CATTATTAAA
 1051 AAATTTTGT CTTAGAAATT TTATGTATGT CAACGCACGA GCAAATTATC
 1101 AGGCATGGG CAGAATTGGC AACTGGGTGG AGGCTTCGGT GGAGGTTAGC
 1151 ACTCCGAAAG GAAAACAGAG TAGGCCTTTG GAACAGCTGC TGAAGAGAT
 1201 AAGGCCTGAA CAAGGGCAGT GGAGAAGAGA GGGTAAAAAT TTTTAAAGGT
 1251 TACATGACCC TGGATTTTGG AGATC

Figure 4B